

## PATENT ABSTRACTS OF JAPAN

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## (54) FRICTION MATERIAL

## (57)Abstract:

PURPOSE: To obtain non-asbestos friction material by incorporating reinforcing fibers composed of rock wool and one or more types of specific fibers, or composed of specific rock wool; a binder; and a friction regulating agent to a friction substrate.

CONSTITUTION: Reinforcing fibers composed of rock wool containing 30W70wt.% of SiO<sub>2</sub>, 0W45wt.% of CaO, 3W20wt.% of Al<sub>2</sub>O<sub>3</sub>, 0W30wt.% of MgO, 2W10wt.% of FeO, 0W3wt.% of MnO, 0.3wt.% of Fe<sub>2</sub>O<sub>3</sub>, 0W3wt.% of S and 0W2wt.% of Cr<sub>2</sub>O<sub>3</sub> are employed. Alternatively, reinforcing fibers where the rock wool mixed with one or more than two of steel fibers, glass fibers, aromatic polyamid fibers, etc., are employed. These reinforcing fibers, binder and friction regulating agent are added. Thus produced friction material contains no asbestos and has stable friction coefficient for causing less abrasion of the friction material and counterpart material and has sufficiently high mechanical strength.

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